

**CLAIMS**

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- ~~1. A system for transplanting an image from a first scene to a second scene comprising:~~
- ~~first means for providing image data;~~
- ~~second means responsive to said first means for storing a first frame of image data~~
- ~~5    consisting of a heterogeneous background scene;~~
- ~~third means responsive to said first means for providing a second frame of image data consisting of a second scene having said background scene at least partially obscured by a foreground object; and~~
- ~~fourth means responsive to said second and third means for processing said~~
- ~~10   second frame to extract an image of said object independent of said background scene.~~
- ~~2. The invention of Claim 1 wherein said fourth means includes means for comparing picture elements of said second frame to corresponding picture elements in said first frame and replacing each pixel element with a predetermined value if the result of the comparison is a first value and outputting each picture element if the result of the~~
- ~~5    comparison is a second value, wherein the second value is the complement of said first value.~~
3. The invention of Claim 1 further including means for inserting said image of said foreground object into a third scene.
4. The invention of Claim 3 wherein said third scene is computer generated.
5. The invention of Claim 4 wherein said first scene is static.

6. The invention of Claim 5 wherein said second scene is dynamic.

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7. A system for transplanting images comprising:  
first means for providing image data;  
second means responsive to said first means for storing a first frame of image data  
consisting of a heterogeneous background scene;  
5 third means responsive to said first means for providing a second frame of image  
data consisting of a second scene having said background scene at least partially obscured  
by a foreground object;  
fourth means for subtracting said first frame from said second frame and  
providing difference frame;  
10 fifth means for processing said difference frame to provide a template; and  
sixth means for multiplying said second frame by said template to extract an  
image consisting essentially of said foreground object

8. The invention of Claim 7 further including means for inserting said image of  
said foreground object into a third scene.

9. The invention of Claim 8 wherein said third scene is computer generated.

10. The invention of Claim 9 wherein said first scene is static.

11. The invention of Claim 10 wherein said second scene is dynamic.

12. The invention of Claim 7 wherein said fifth means includes means for filtering  
said difference frame.

~~13. The invention of Claim 12 wherein said fifth means includes means for differentiating said filtered image.~~

*Sub C2* ~~14. The invention of Claim 13 wherein said means for differentiating provides an outline.~~

~~15. The invention of Claim 14 wherein said fifth means includes means for filling said outline with a value.~~

~~16. The invention of Claim 15 wherein said value is a logical '1'.~~

~~17. An image processing method for transplanting an image from a first scene to a second scene, said method including the steps of:~~

~~storing a first frame of image data consisting of a heterogeneous background scene;~~

~~5 providing a second frame of image data consisting of a second scene having said background scene at least partially obscured by a foreground object; and~~

~~processing said second frame to extract an image of said object independent of said background scene.~~